$$\begin{array}{c|c}
R_1 & R_2 \\
\hline
O = P - N = P - R \\
\hline
R_3 & R_4
\end{array}$$

$$O = \begin{array}{c|c} Ph & Ph \\ \hline Ph & Ph \\ \hline \\ O = P - N = P - Ph - NR_1R_2 \\ \hline \\ Ph & Ph \\ \hline \\ NR_1R_2 \\ \hline \end{array}$$

Fig. 3

$$\begin{array}{c} R \\ \\ R \\ \\ R \end{array}$$

Fig. 4d

Fig. 4e

Fig. 4h

$$4/25$$

$$R$$

$$R$$

$$R$$

$$R$$

$$R$$

$$R$$

$$R$$

$$R$$

$$R$$

Fig. 4i

Fig. 4j

Fig.4k

Fig. 4l

$$\begin{array}{c} \text{FL} \\ \text{FL} \\ \text{FL} \\ \text{Fl} \\ \text{Fig. 5a} \end{array}$$

$$\begin{array}{c} \text{R}_4 \\ \text{R}_3 \\ \text{R}_1 \\ \text{O} \\ \text{Fig. 5b} \\ \end{array}$$

$$R_2$$
 R_1 R_1 R_2 R_1 R_2 R_3 R_4 R_4

Fig. 5d

$$O = \begin{array}{c|c} O & R_1 \\ \hline O & R_2 & Ph \\ \hline O & P & Ph \\ \hline O & R_3 & R_7 \\ \hline O & R_4 & \\ \hline Fig. 6e & \\ \end{array}$$

$$R_{2}N$$
 $R_{2}N$

Fig. 5g

Fig 6b

$$R_1$$

Fig. 6d

Fig. 7c

Fig. 7b

$$\begin{pmatrix}
R_2 & & \\
R_3 & & N \\
R_1 & & \\
R_2 & & N \\
R_3 & & \\
R_1 & & \\
R_2 & & \\
R_3 & & \\
R_1 & & \\
R_2 & & \\
R_3 & & \\
R_1 & & \\
R_2 & & \\
R_3 & & \\
R_1 & & \\
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R_3 & & \\
R_4 & & \\
R_2 & & \\
R_3 & & \\
R_4 & & \\
R_2 & & \\
R_3 & & \\
R_4 & & \\
R_2 & & \\
R_3 & & \\
R_4 & & \\
R_4 & & \\
R_5 & &$$

Fig. 7d

$$S = 0$$

$$(CH_2)_n$$

n = 0,1,2 etc.

Fig. 7e

$$CH_2$$
 R'
 $S = 0$
 $(CH_2)_m$ $m = 0,1,2$ etc.
 $m = 0,1,2$ etc.

Fig. 7f

$$R_1$$
 R_2 R_2 R_3 R_4 R_5

O

$$(CH_2)_m - S - (CH_2)_n$$

 $m = 0,1,2 \text{ etc.}$
 $n = 0,1,2 \text{ etc.}$

Fig. 8b

Fig.8d

Fig. 8e

$$\begin{array}{c|c}
O \\
\parallel \\
CH_2 \\
n = 0,1,2 \text{ etc.} \\
n = 0,1,2 \text{ etc.}
\end{array}$$

Fig. 8f

$$\begin{array}{c}
R \\
CH_2 \\
R
\end{array}$$

$$\begin{array}{c}
CH_2 \\
R
\end{array}$$

Fig. 8g

Fig. 8h

Alq

Bebq

BAlq1

ZnPBO

ZnPBT

DTVb1

OXD- Star

Fig. 10

$$H_2NH_2C$$
 N
 CH_2NH_2
 CH_2NH_2
 CH_2NH_2

EDTA

$$\begin{array}{c|ccccc} CH_2NH_2 & CH_2NH_2 & CH_2NH_2 \\ & & & & \\ & & & & \\ H_2NH_2C & & N & -- CH_2CH_2 & -- N & -- CH_2NH_2 \\ \end{array}$$

DTPA

TTHA

Fig. 11

Fig. 12d

$$R_1$$
 R_2 R_3 R_4

$$R_4$$
 R_3 R_4 R_4 R_4 R_5

Flg. 14b

$$R_1$$
 R_2
 S
 S
 R_3
 R_4
or

$$R_1$$
 S
 S
 S
 R_3
 R_4

Fig. 14c

Fig. 14d

Fig. 15a

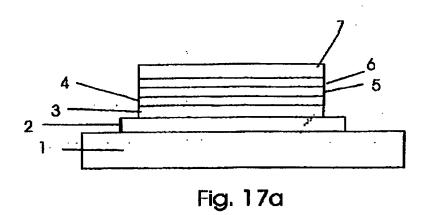
Fig. 15b

Fig. 16a

Fig. 16b

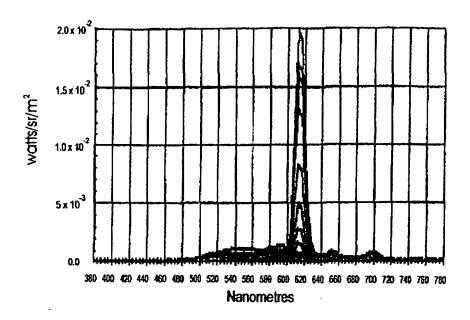
mTADATA

Fig. 16C



2 3 5 5 5 5 Fig. 17b

Device of example 2

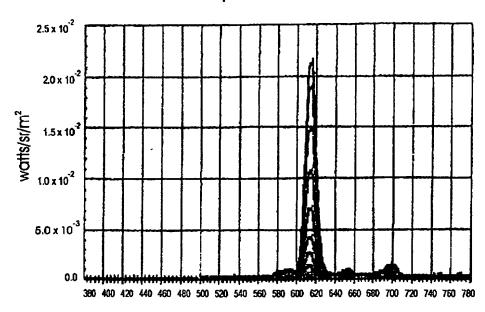


Voltage / V	Colour Co-ordinates	
	x .	l y
22	0.61	0.33
24	0.62	0.33
26	0.62	0.34
28	0.63	0.35
30	0.63	0.35
33	0.63	0.35
36	0.63	0.35
39	0.63	0.35
42	0.63	0.35
46	0.62	0.36
50	0.62	0.36
54	0.61	0.37
58	0.61	0.37
62	0.60	0.38
66	0.59	0.39

Fig. 18

Device of example

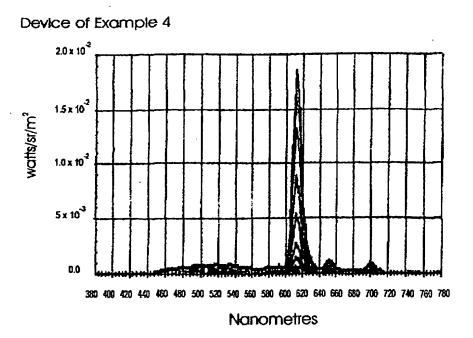




Nanometres

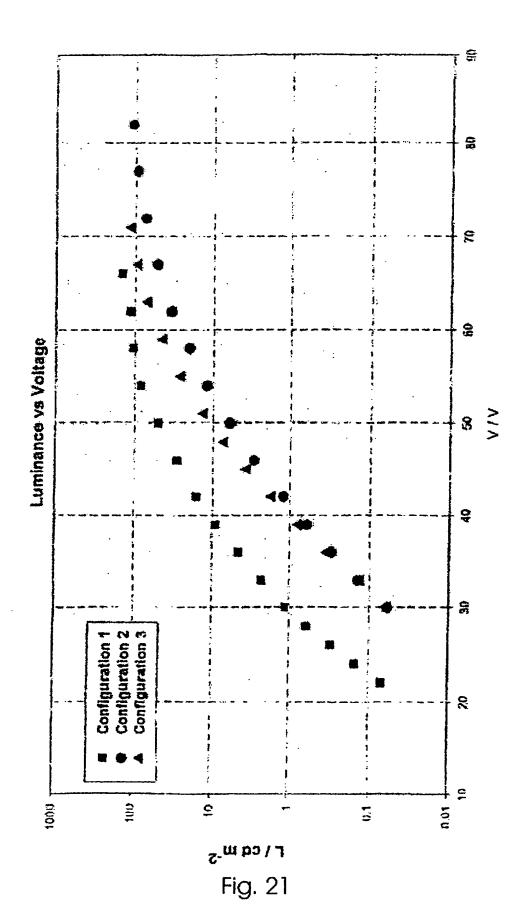
Voltage / V	Colour Co-ordinates	
	X	у
30	0.62	0.32
33	0.62	0.32
36	0.62	0.33
39	0.66	0.33
42	0.66	0.33
46	0.66	0.33
50	0.66	0.33_
54	0.66	0.33
58	0.66	0.33
62	0.66	0.33
67	0.66	0.33
72	0.65	0.33
77	0.65	0.33
82	0,65	0.33

Fig. 19



Voltage / V	Colour Co-ordinates	
	x	У
30	0.57	0.34
33	0,60	0.32
36	0.62	0.33
39	0.2	0.33
42	0.63	0.34
45	0.63	0.34
48	0.63	0.34
.51	0.63	0.34
55	0.63	0.34
59	0.63	0.34
63	0.62	0.34
67	0.59	0.35
71	0.57	036

Fig. 20



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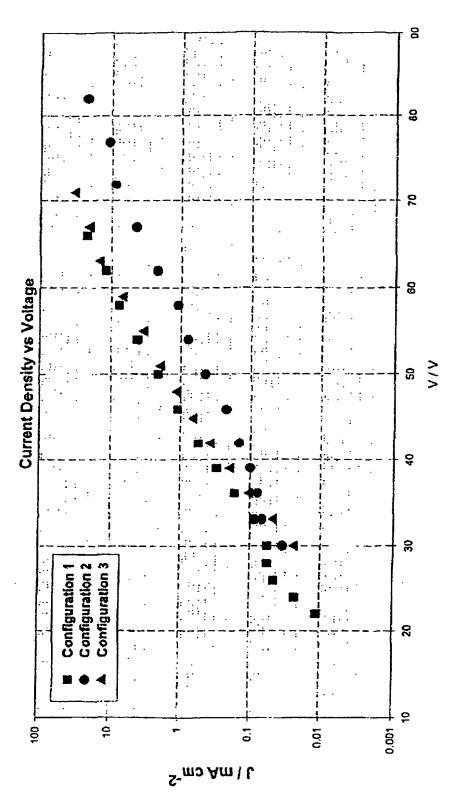


Fig. 22

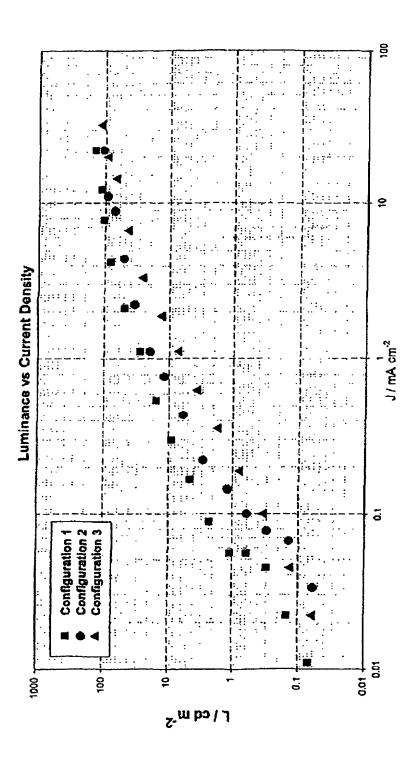


Fig. 23

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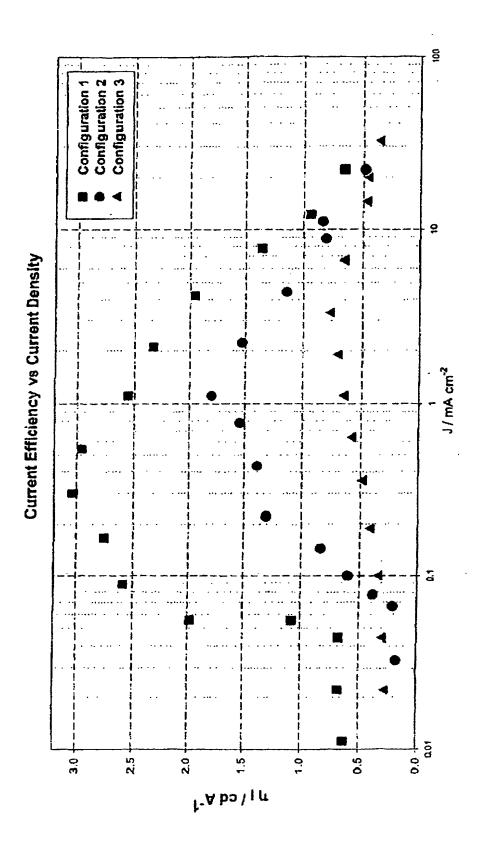


Fig. 24 BEST AVAILABLE COPY

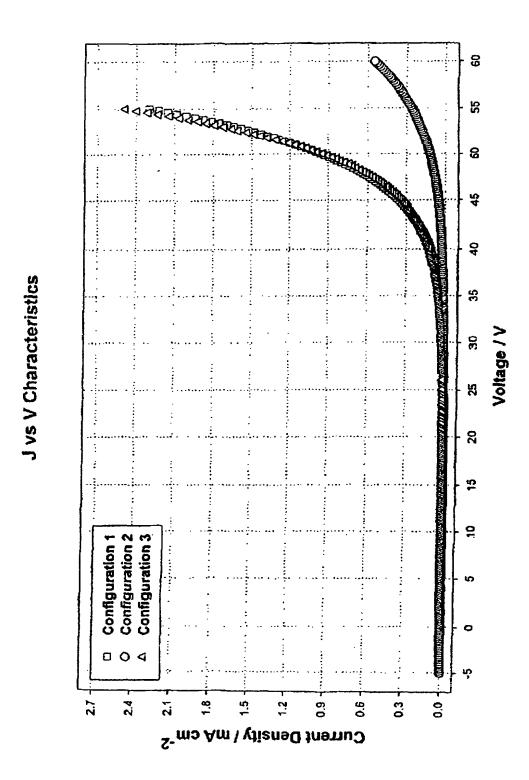


Fig. 25